

ABSTRACT OF THE DISCLOSURE

[49] A hydroelectric generator is provided for driving electrical components. The generator includes a housing configured to be connected to a water supply and includes an inlet port and a discharge port arranged at opposite ends thereof. The housing includes a linear passageway extending along a straight path entirely through the housing that is configured to convey water from the inlet port to the discharge port. The hydroelectric generator also includes a power generator mounted in the passageway and configured to convert energy from water flowing through the passageway into electric power. The generator includes magnets and a coil centered within the passageway with at least one of the coil and magnets being adapted to be rotated relative to the housing in response to flowing water. The hydroelectric generator includes an electric output from the power generator delivering electrical power to an electrical component connected to the power generator.